



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/664,479	09/18/2000	Robert Ellis Chapman JR.	YOR920000632US1	4711

7590 06/06/2005
ANNE VACHON DOUGHTERY, ESQ.
3173 Cedar Road
Yorktown Heights, NY 10598

EXAMINER

NGUYEN, TU X

ART UNIT PAPER NUMBER

2684

DATE MAILED: 06/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/664,479

Applicant(s)

CHAPMAN ET AL.

Examiner

Tu X Nguyen

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 March 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 9-15 is/are pending in the application.
- 4a) Of the above claim(s) 3-8 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 9-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. Applicant's arguments with respect to claims 1 and 13-15, Applicant's arguments filed 3/21/05 have been fully considered but they are not persuasive.

Applicants argue that "Under the present invention, while multiple devices may share a telephone number, and the associated single wireline, the inventive network node and method allows selective connections across the different devices based on the unique information associated with each specific device, such that multiple incoming calls to a single telephone number and/or outgoing calls can be connected between multiple different wireless devices and the wirelines even when the wireless devices share the same telephone number. Applicants respectfully assert that the Lu patent does not teach or suggest the invention as claimed". In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "that multiple incoming calls to a single telephone number and/or outgoing calls can be connected between multiple different wireless devices and the wirelines even when the wireless devices share the same telephone number") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicants argue that "Lu does not teach or suggest a network node with the functionality which is taught and claimed for the network nodes of the present invention.

Art Unit: 2684

With specific reference to the claim language, the Examiner has analogized the network node device for dynamically and selectively connecting one or more telephone wirelines to one or more wireless connections by citing the Lu passage found at Col. lines 35-44, wherein Lu generally states that different components of the stand-alone network may be co-located. Applicants respectfully assert that co-locating different components with different functionalities, wherein each performs its own function, is not the same as of suggestive of providing a single node to perform multiple functions". However, the Examiner does not rely on the Lu's feature "dispersed in a wide geographic area to increase the domain", the Examiner relies on "the stand-alone cPBX network be integrated on a single chassis".

Applicants argue that "Applicants respectfully assert that an cited against a definitive cannot be connections. The network node of the linked to wirelines, as Lu optionally provides: then the network node would be unworkable for its purposes. Clearly such optional teachings do not anticipate or obviate the invention as claimed. However, the Examiner interprets that if the link 328 is optional, the network node is still workable because the cPBX will takes indirect link 322 and 326

Applicants argue that "with respect to the claimed signal generator as a component of the network node, Applicants not the cited passage from Col. 12, lines 30-40 describes a common numbering system. There is nothing in the cited passage about wireless signal generators". However, Lu discloses additional "one or more wireless signal generators supporting one or more wireless connections to one or more wireless devices (see col.12 lines 8-19, within a stand-alone cPBX subsystem, a base

Art Unit: 2684

station (BTS) generates signal calls between mobile units "calls between Ms unit 300 and 392. cross-connected at the BTS, the BSC, or the cPBX subsystem" reads on "signal generators" with reasonable broadly interpretations).

Applicants argue that "With respect to the claimed at least one storage location for storing unique information comprising at least unique service information specific to each device, the Examiner has cited the passage from Col. 9, lines 36-45. The Lu teachings referenced therein note that subscriber information is stored to allow the CPBX entity to determine if the user is an authorized subscriber. There is nothing which states or suggests that the stored information is service information that is unique to a user. Rather, the stored information indicates whether the user is a subscriber, a status which is shared by all authorized users". However, Lu discloses "registry 252 of cPBX network" which inherently understood as a database storing unique identification information subscribers reads on "storage location for storing unique information, comprising at least unique service information, specific to each of a plurality of wireless devices".

Applicants argue that "With regard to the claimed processor has cited Col.19 lines 41-50. The cited passage describes a clock module and diagnostics. However, there is no mention of a processor for generating call processing signals based on stored unique information. Similarly, the Examiner has cited the passage information. found from based on stored unique information Col. 19, line 52 through Col. 20, line 39, which does not teach or suggest describes a TRX module and a the claimed feature. The cited passage trunk module which comprise transceivers and routing. based to

Art Unit: 2684

send and receive data, providing switching Lu does not make any mention of switching on call processing signals generated based on stored there is no mention of a processor a clock module and diagnostics- for generating unique information".

However, Lu discloses call processing signals based on stored unique information (see col.13 lines 47-55 and col.19 lines 41-50, "CPU module 526" reads on "processor").

Applicants argue that "The Examiner has cited the passage found in col.21 lines 9-42 against the claimed bridge. Applicants again note that Lu does not teach call processing signals generated based on stored unique information. Lu is simply modulating signals by dividing them into strings or frames to be sent. The cited Lu teachings do not anticipate the claimed bridge of a network node, or the claimed functionality thereof. However, as mention above, Lu discloses call bridging based on stored unique information (see col.8 lines 55-65, "cross-connect" reads on "bridge" with reasonable broadest interpretation).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-2 and 9-15, are rejected under 35 U.S.C. 102(b) as being anticipated by Lu et al. (US Patent 5,734,699).

Art Unit: 2684

Regarding claims 1 and 14, Lu et al. disclose a network node device (see 200, fig.3A, col.7 lines 35-44) for connecting one or more telephone wirelines (322, 324, fig.4A) to one or more wireless connections (312, 314 fig.4A), the network node device comprising:

- one or more connections to one or more telephone wirelines (see col.10 lines 37-50);

- one or more wireless signal generators supporting one or more wireless connections to one or more wireless devices (see col.12 lines 30-40);

- at least one storage location for storing unique information, comprising at least unique service information, specific to each of a plurality of wireless devices (see col.9 lines 36-45);

- a processor for accessing said at least one storage location and for generating call processing signals based on said stored unique information (see col.13 lines 47-55 and col.19 lines 41-50);

- an interconnection switch that makes and breaks one or more interconnections between the telephone wirelines and the respective wireless signal generators to connect one or more incoming calls arriving on said telephone wirelines to one or more of the plurality of wireless devices in response to said call processing signals generated by said processor (see col.13 lines 47-55 and col.19 lines 41-50); and

- a bridge that bridges (see col.8 lines 55-65) signals from multiple wireless connections for outgoing calls from one or more of said plurality of wireless devices to

Art Unit: 2684

one or more of the telephone wirelines in response to said call processing signals generated by said processor based on stored unique information (see col.21 lines 9-42).

Regarding to claim 2, Lu et al. disclose a verifier that verifies the validity of a request from a wireless device through a wireless connection for the bridging of signals (see col.8 lines 47-57 and col.29 lines 33-52).

Regarding claim 9, Lu et al. disclose said unique information comprises a unique identifier and unique service information for each wireless device and wherein said bridge dynamically and selectively bridges signals from a wireless device to one of the telephone wirelines based on the unique identifier of the wireless device and said unique service information (see col.9 lines 35-45, col.11 lines 50-57).

Regarding claim 10, Lu et al. disclose said unique service information comprises at least one of service access, priority and privacy information (see col.3 lines 6-15, col.29 lines 34-51).

Regarding claim 11, O'Neil et al. disclose said bridge is adapted to alter the bridging of signals from at least one wireless device to one of the telephone wirelines in response to a change to said unique service information after a wireless connection has already been made (see col.9 lines 46-59).

Regarding claim 12, Lu et al. disclose said bridge is adapted to deny bridging of a wireless connection to one or more telephone wirelines based on said unique service information (see col.8 lines 4-16).

Regarding claims 13 and 15, Lu et al. disclose a network node device (see 200, fig.3A, col.7 lines 35-44) for connecting one or more telephone wirelines (322, 324,

Art Unit: 2684

fig.4A) to one or more wireless connections (312, 314 fig.4A), the network node device comprising:

- one or more connections to one or more telephone wirelines (see col.10 lines 37-50);

- one or more wireless signal generators supporting one or more wireless connections to one or more wireless devices (see col.12 lines 30-40);

- at least one storage location for storing unique information, comprising at least unique service information, specific to each of a plurality of wireless devices (see col.9 lines 36-45);

- a processor for accessing said at least one storage location and for generating call processing signals based on said stored unique information (see col.13 lines 47-55 and col.19 lines 41-50);

- an interconnection switch that makes and breaks one or more interconnections between the telephone wirelines and the respective wireless signal generators to connect one or more incoming calls arriving on said telephone wirelines to one or more of the plurality of wireless devices in response to said call processing signals generated by said processor (see col.13 lines 47-55 and col.19 lines 41-50); and

- a bridge that bridges (see col.8 lines 55-65) signals from multiple wireless connections for outgoing calls from one or more of said plurality of wireless devices to one or more of the telephone wirelines in response to said call processing signals generated by said processor based on stored unique information (see col.21 lines 9-42).

Art Unit: 2684

said bridge is adapted to alter the bridging of signals from at least one wireless device to one of the telephone wirelines in response to a change to said unique service information after a wireless connection has already been made (see col.9 lines 46-59).

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Nguyen whose telephone number is 571-272-7883. The examiner can normally be reached on Monday through Friday from 8:30AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MAUNG NAY A, can be reached at (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

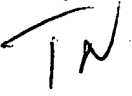
Art Unit: 2684


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Hand-delivered responses should be brought to Crystal Park II, 2121
Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).


May 16, 2005


NAY MAUNG
SUPERVISORY PATENT EXAMINER